

ABSTRACT

A flat motor is composed of a rotor 1 provided with a driving magnet 3 in a ring shape and a shaft 8, and a stator 5. The stator 1 is composed of a stator yoke 6 provided with a bearing mounting section 12 for mounting a bearing 10 for holding the rotor 1 and a driving coil mounting section 13 for mounting a plurality of driving coils 4 disposed in conjugating with the outer side of the bearing mounting section 12. The plurality of driving coils 4 is disposed in a concentric circle with facing towards the driving magnet 3. The bearing mounting section 12 is formed flat in a circular shape with centering the shaft 8. The driving coil mounting section 13 is a part of surface of approximately a circular cone shape having a vertex on the shaft 8 and is in a shape of inclining towards a direction away from the rotor 1 in accordance with being far away from the shaft 8 and formed with a pleat by bending the stator yoke 6 in a conjugating section 14 between the bearing mounting section 12 and the driving coil mounting section 13.